

Calcium Chloride

calcium dichloride | CAS 10043-52-4

Product identification

Product name	Calcium Chloride
Chemical name	calcium dichloride
CAS number	10043-52-4
PubChem CID	5284359
Molecular formula	CaCl ₂
Molecular weight	110.98 g/mol
InChIKey	UXVMQQNJUSDDNG-UHFFFAOYSA-L
Canonical / reference SMILES	[Cl-].[Cl-].[Ca+2]
Material type	Chemical reference material / technical compound

Material description

Calcium Chloride is a inorganic calcium salt supplied by Rexar as a chemical reference material / technical compound. The identity data support laboratory identification, documentation and analytical comparison.

Intended use

For laboratory, analytical, chemical and method-development applications. Not for human or animal consumption. Not intended for food, supplement, cosmetic, medical, diagnostic or therapeutic use.

Reference characteristics

Structural class	Inorganic calcium salt
Typical physical form	White to off-white solid; strongly hygroscopic
Storage guidance	Keep tightly closed and dry. Protect from moisture because calcium chloride is strongly hygroscopic.

Analytical use and traceability

Lot-specific purity, water content, residual solvents and analytical acceptance criteria must be taken from the applicable supplier documentation or certificate of analysis; they are not inferred by this datasheet.

Safety note

Calcium chloride is commonly classified as causing serious eye irritation (Eye Irrit. 2 / H319) in supplier and regulatory safety documentation. Confirm the applicable grade/batch SDS. Consult the applicable Safety Data Sheet before handling.

Identity verification note

Anhydrous calcium chloride identity verified against PubChem CID 5284359 and Fisher Scientific: CAS 10043-52-4, CaCl₂, 110.98 g/mol, InChIKey UXVMQQNJUSDDNG-UHFFFAOYSA-L.

Document control

Document	Rexar Technical Compound Datasheet
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Revision	10 September 2026
Status	Reference information; not a certificate of analysis

Disclaimer

This document is provided for chemical identification and laboratory reference purposes. It does not certify batch purity or replace lot-specific analytical documentation. Users remain responsible for suitability, regulatory status and safe handling.